



January 26, 2021

Dr. Stefan Mitschke
Regulatory Affairs Scientist
Fast Track Diagnostics Luxembourg S.à.r.l.
A Siemens Healthineers Company
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Device: FTD SARS-CoV-2

EUA Number: EUA200571

Company: Fast Track Diagnostics Luxembourg S.à.r.l. (A Siemens Healthineers Company)

Indication: Qualitative detection of nucleic acid from SARS-CoV-2 in upper respiratory specimens (such as nasal, nasopharyngeal, oropharyngeal swabs, and nasopharyngeal wash/aspirate or nasal aspirate) and bronchoalveolar lavage from individuals who are suspected of Coronavirus Disease 2019 (COVID-19) by their healthcare provider.

Emergency use of this test is limited to authorized laboratories.

Authorized Laboratory: Testing is limited to laboratories certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA), 42 U.S.C. §263a, that meet the requirements to perform high complexity tests.

Dear Dr. Mitschke:

On May 5, 2020, based on your¹ request, the Food and Drug Administration (FDA) issued a letter authorizing the emergency use of the FTD SARS-CoV-2, pursuant to Section 564 of the Federal Food, Drug, and Cosmetic Act (the Act) (21 U.S.C. §360bbb-3) for the qualitative detection of nucleic acid from SARS-CoV-2 in upper respiratory specimens (such as nasal, nasopharyngeal, oropharyngeal swabs, and nasopharyngeal wash/aspirate or nasal aspirate) and bronchoalveolar lavage from individuals who are suspected of Coronavirus Disease 2019 (COVID-19) by their healthcare provider. Testing was limited to laboratories certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA), 42 U.S.C. §263a, to

¹ For ease of reference, this letter will use the term “you” and related terms to refer to Fast Track Diagnostics Luxembourg S.à.r.l. (A Siemens Healthineers Company).

perform high complexity tests. Based on your request, FDA also granted updates to the authorized labeling on July 9, 2020.²

On November 6, 2020, you requested to further revise your Emergency Use Authorization (EUA). Based on that request, and having concluded that revising the May 5, 2020, EUA is appropriate to protect the public health or safety under section 564(g)(2)(C) of the Act (21 U.S.C. § 360bbb-3(g)(2)(C)), FDA is reissuing the May 5, 2020, letter in its entirety with the revisions incorporated.³ Pursuant to section 564 of the Act and the Scope of Authorization (Section II) and Conditions of Authorization (Section IV) of this reissued letter, your product⁴ is now intended for the indications described above.

On February 4, 2020, pursuant to Section 564(b)(1)(C) of the Act, the Secretary of the Department of Health and Human Services (HHS) determined that there is a public health emergency that has a significant potential to affect national security or the health and security of United States citizens living abroad, and that involves the virus that causes COVID-19. Pursuant to Section 564 of the Act, and on the basis of such determination, the Secretary of HHS then declared that circumstances exist justifying the authorization of emergency use of in vitro diagnostics for detection and/or diagnosis of the virus that causes COVID-19 subject to the terms of any authorization issued under Section 564(a) of the Act.⁵

FDA considered the totality of scientific information available in authorizing the emergency use of your product for the indication above. A summary of the performance information FDA relied upon is included in the “FTD SARS-CoV-2” Instructions for Use (identified below).

Having concluded that the criteria for issuance of this authorization under Section 564(c) of the Act are met, I am authorizing the emergency use of your product, described in the Scope of Authorization of this letter (Section II), subject to the terms of this authorization.

I. Criteria for Issuance of Authorization

I have concluded that the emergency use of your product meets the criteria for issuance of an authorization under Section 564(c) of the Act, because I have concluded that:

1. The SARS-CoV-2 can cause a serious or life-threatening disease or condition, including severe respiratory illness, to humans infected by this virus;

² On July 9, 2020, your request was granted to update the Instructions for Use (IFU) of the FTD SARS-CoV-2 to add the VERSANT kPCR Molecular System (Siemens Healthineers) as an additional extraction and amplification detection system.

³ The revisions to the April 20, 2020, letter include (1) update the IFU to include two new external RNA positive controls and to remove the previously listed external RNA positive control, (2) update the inclusivity *in silico* analysis, (3) update the intended use and healthcare provider and patient fact sheets to reflect more recent authorizations and (4) update conditions of authorization consistent with recent authorizations, including additional conditions L, M and P and consolidation of conditions in J.

⁴ For ease of reference, this letter will use the term “your product” to refer to the FTD SARS-CoV-2.

⁵ U.S. Department of Health and Human Services, *Determination of a Public Health Emergency and Declaration that Circumstances Exist Justifying Authorizations Pursuant to Section 564(b) of the Federal Food, Drug, and Cosmetic Act*, 21 U.S.C. § 360bbb-3. 85 FR 7316 (February 7, 2020).

2. Based on the totality of scientific evidence available to FDA, it is reasonable to believe that your product may be effective in diagnosing COVID-19, and that the known and potential benefits of your product, when used for diagnosing COVID-19, outweigh the known and potential risks of such product; and,
3. There is no adequate, approved, and available alternative to the emergency use of your product for diagnosing COVID-19.⁶

II. Scope of Authorization

I have concluded, pursuant to Section 564(d)(1) of the Act, that the scope of this authorization is limited to the indication above.

The Authorized Product

Your product is a qualitative test for the detection of nucleic acid from SARS-CoV-2 in upper respiratory specimens (such as nasal, nasopharyngeal, oropharyngeal swabs, and nasopharyngeal wash/aspirate or nasal aspirate) and bronchoalveolar lavage from individuals who are suspected of COVID-19 by their healthcare provider.

Testing is limited to laboratories certified under CLIA that meet the requirements to perform high complexity tests.

The SARS-CoV-2 nucleic acid is generally detectable in upper respiratory specimens and bronchoalveolar lavage during the acute phase of infection. Positive results are indicative of the presence of SARS-CoV-2 nucleic acid; clinical correlation with patient history and other diagnostic information is necessary to determine patient infection status. Positive results do not rule out bacterial infection or co-infection with other viruses. Negative results do not preclude SARS-CoV-2 infection and should not be used as the sole basis for patient management decisions. Negative results must be combined with clinical observations, patient history, and epidemiological information.

To use your product, SARS-CoV-2 nucleic acid is first extracted, isolated and purified from upper respiratory specimens (such as nasal, nasopharyngeal, oropharyngeal swabs, and nasopharyngeal wash/aspirate or nasal aspirate) and bronchoalveolar lavage. The purified nucleic acid is then reverse transcribed into cDNA followed by PCR amplification and detection using an authorized real-time (RT) PCR instrument. The FTD SARS-CoV-2 includes the following materials or other authorized materials: SCoV2 PP Mix 96, SCoV2 PC 96, Negative Ctrl 96, Internal Ctrl 96, 25x RT-PCR Enz. 96 and 2x RT-PCR Buff. 96.

Your product requires the following control materials, or other authorized control materials (as may be requested under Condition J below), that are processed in the same way as the patient samples and are required to be included with each batch of specimens tested with your product. All controls listed below must generate expected results in order for a test to be considered valid, as outlined in the Instructions for Use:

⁶ No other criteria of issuance have been prescribed by regulation under Section 564(c)(4) of the Act.

- Internal Control - Equine arteritis virus (EAV) - added to each clinical specimen and the negative control and demonstrates that nucleic acid was generated by the extraction process and monitors for inhibition.
- Positive control - SCoV2 PC 96 - contains double-stranded synthetic DNA molecules of genomic regions targeted by the kit. The positive control is used to monitor for failures of PCR reagents and reaction conditions.
- Negative Control - Negative Ctrl 96 - contains nuclease-free, molecular-grade water used to monitor non-specific amplification, cross-contamination during experimental setup, and nucleic acid contamination of reagents.

You also recommend use of external RNA positive controls which are not included with the kit but are available commercially and are run as outlined in the Instructions for Use described below.

Your product also requires the use of additional authorized materials and authorized ancillary reagents that are not included with the test and are described in the authorized labeling.

The above described product is authorized to be accompanied by the labeling entitled “FTD SARS-CoV-2” Instructions for Use (available at <https://www.fda.gov/medical-devices/coronavirus-disease-2019-covid-19-emergency-use-authorizations-medical-devices/vitro-diagnostics-euas>), and the following fact sheets pertaining to the emergency use, which is required to be made available to healthcare providers and patients (collectively referred to as “authorized labeling”):

- Fact Sheet for Healthcare Providers: Fast Track Diagnostics Luxembourg S.à.r.l. (A Siemens Healthineers Company) – FTD SARS-CoV-2
- Fact Sheet for Patients: Fast Track Diagnostics Luxembourg S.à.r.l. (A Siemens Healthineers Company) – FTD SARS-CoV-2

The above described product, when accompanied by the authorized labeling is authorized to be distributed and used by authorized laboratories under this EUA, despite the fact that it does not meet certain requirements otherwise required by applicable federal law.

I have concluded, pursuant to Section 564(d)(2) of the Act, that it is reasonable to believe that the known and potential benefits of your product, when used consistent with the Scope of Authorization of this letter (Section II), outweigh the known and potential risks of such product.

I have concluded, pursuant to Section 564(d)(3) of the Act, based on the totality of scientific evidence available to FDA, that it is reasonable to believe that your product may be effective in diagnosing COVID-19, when used consistent with the Scope of Authorization of this letter (Section II), pursuant to Section 564(c)(2)(A) of the Act.

FDA has reviewed the scientific information available to FDA, including the information supporting the conclusions described in Section I above, and concludes that your product, (as described in the Scope of Authorization of this letter (Section II)) meets the criteria set forth in Section 564(c) of the Act concerning safety and potential effectiveness.

The emergency use of your product under this EUA must be consistent with, and may not exceed, the terms of this letter, including the Scope of Authorization (Section II) and the Conditions of Authorization (Section IV). Subject to the terms of this EUA and under the circumstances set forth in the Secretary of HHS's determination under Section 564(b)(1)(C) of the Act described above and the Secretary of HHS's corresponding declaration under Section 564(b)(1) of the Act, your product is authorized for the indication above.

III. Waiver of Certain Requirements

I am waiving the following requirements for your product for the duration of this EUA:

- Current good manufacturing practice requirements, including the quality system requirements under 21 CFR Part 820 with respect to the design, manufacture, packaging, labeling, storage and distribution of your product.

IV. Conditions of Authorization

Pursuant to Section 564(e) of the Act, I am establishing the following conditions on this authorization:

Fast Track Diagnostics Luxembourg S.à.r.l. (You) and Authorized Distributor(s)⁷

- A. Your product must comply with the following labeling requirements under FDA regulations: the intended use statement (21 CFR 809.10(a)(2), (b)(2)); adequate directions for use (21 U.S.C. 352(f)), (21 CFR 809.10(b)(5), (7), and (8)); appropriate limitations on the use of the device including information required under 21 CFR 809.10(a)(4); and any available information regarding performance of the device, including requirements under 21 CFR 809.10(b)(12).
- B. You and authorized distributors must make your product available with the authorized labeling to authorized laboratories.
- C. You and authorized distributor(s) must make available on your website(s) the authorized labeling.
- D. You and authorized distributor(s) must inform authorized laboratories and relevant public health authorities of this EUA, including the terms and conditions herein, and any updates made to your product and/or authorized labeling.
- E. Through a process of inventory control, you and authorized distributor(s) must maintain records of the authorized laboratories to which they distribute the test and number of tests they distribute.

⁷ “Authorized Distributors” are identified by you, Fast Track Diagnostics Luxembourg S.à.r.l., in your EUA submission as an entity allowed to distribute your product.

- F. You and authorized distributor(s) must collect information on the performance of your product. You will report to FDA any suspected occurrence of false positive and false negative results and significant deviations from the established performance characteristics of the product of which you become aware.
- G. You and authorized distributor(s) are authorized to make available additional information relating to the emergency use of your product that is consistent with, and does not exceed, the terms of this letter of authorization.

Fast Track Diagnostics Luxembourg S.à.r.l. (You)

- H. You must notify FDA of any authorized distributor(s) of your product, including the name, address, and phone number of any authorized distributor(s).
- I. You must provide authorized distributor(s) with a copy of this EUA and communicate to authorized distributor(s) any subsequent amendments that might be made to this EUA and its authorized accompanying materials (e.g., Fact Sheets).
- J. You may request changes to this EUA for your product, including to the Scope of Authorization (Section II in this letter) or to the authorized labeling, including requests to make available additional authorized labeling specific to an authorized distributor. Such additional labeling may use another name for the product but otherwise must be consistent with the authorized labeling, and not exceed the terms of authorization of this letter. Any request for changes to this EUA should be submitted to the Division of Microbiology (DMD)/Office of Health Technology 7 (OHT7)-Office of In Vitro Diagnostics and Radiological Health (OIR)/Office of Product Evaluation and Quality (OPEQ)/Center for Devices and Radiological Health (CDRH) and require appropriate authorization from FDA prior to implementation.
- K. You must comply with the following requirements pursuant to FDA regulations: Subpart H (Acceptance Activities, 21 CFR 820.80 and 21 CFR 820.86), Subpart I (Nonconforming Product, 21 CFR 820.90), and Subpart O (Statistical Techniques, 21 CFR 820.250).
- L. You must have lot release procedures and the lot release procedures, including the study design and statistical power, must ensure that the tests released for distribution have the clinical and analytical performance claimed in the authorized labeling.
- M. If requested by FDA, you must submit lot release procedures to FDA, including sampling protocols, testing protocols, and acceptance criteria, that you use to release lots of your product for distribution in the U.S. If such lot release procedures are requested by FDA, you must provide it within 48 hours of the request.
- N. You must evaluate the analytical limit of detection and assess traceability⁸ of your product with any FDA-recommended reference material(s). After submission to and

⁸ Traceability refers to tracing analytical sensitivity/reactivity back to an FDA-recommended reference material.

concurrence with the data by FDA, you will update your labeling to reflect the additional testing. Such labeling updates will be made in consultation with, and require concurrence of, DMD/OHT7-OIR/OPEQ/CDRH.

- O. You must have a process in place to track adverse events, including any occurrence of false results and report to FDA in accordance with 21 CFR Part 803.
- P. You must provide documentation and/or develop a laboratory procedure whereby authorized laboratories can verify that the RUO product(s) authorized with your product is capable of performing the FTD SARS-CoV-2 with sufficient accuracy, as stated in the authorized labeling. You must submit the procedure to FDA within 21 calendar days of authorization. After DMD/OHT7-OIR/OPEQ/CDRH's review and concurrence, you must update the authorized labeling to reflect the laboratory procedure within 45 calendar days of authorization.

Authorized Laboratories

- Q. Authorized laboratories using your product must include with result reports of your product, all authorized Fact Sheets. Under exigent circumstances, other appropriate methods for disseminating these Fact Sheets may be used, which may include mass media.
- R. Authorized laboratories using your product must use your product as outlined in the Instructions for Use. Deviations from the authorized procedures, including the authorized instruments, authorized extraction methods, authorized clinical specimen types, authorized control materials, authorized other ancillary reagents and authorized materials required to use your product are not permitted.
- S. Authorized laboratories that receive your product must notify the relevant public health authorities of their intent to run your product prior to initiating testing.
- T. Authorized laboratories using your product must have a process in place for reporting test results to healthcare providers and relevant public health authorities, as appropriate.
- U. Authorized laboratories must collect information on the performance of your product and report to DMD/OHT7-OIR/OPEQ/CDRH (via email: CDRH-EUA-Reporting@fda.hhs.gov) and You (tel: 1-877-229-8601 / email: support-ftd.team@siemens-healthineers.com) any suspected occurrence of false positive or false negative results and significant deviations from the established performance characteristics of your product of which they become aware.
- V. All laboratory personnel using your product must be appropriately trained in RT-PCR techniques and use appropriate laboratory and personal protective equipment when handling this kit, and use your product in accordance with the authorized labeling.

Fast Track Diagnostics Luxembourg S.à.r.l. (You), Authorized Distributor(s) and

Authorized Laboratories

- W. You, authorized distributors, and authorized laboratories using your product must ensure that any records associated with this EUA are maintained until otherwise notified by FDA. Such records will be made available to FDA for inspection upon request.

Conditions Related to Printed Materials, Advertising and Promotion

- X. All descriptive printed matter, advertising, and promotional materials relating to the use of your product shall be consistent with the authorized labeling, as well as the terms set forth in this EUA and the requirements set forth in section 502(a), (q)(1), and (r) of the Act and FDA implementing regulations.
- Y. No descriptive printed matter, advertising, or promotional materials relating to the use of your product may represent or suggest that this test is safe or effective for the detection of SARS-CoV-2.
- Z. All descriptive printed matter, advertising, and promotional materials relating to the use of your product shall clearly and conspicuously state that:
- This test has not been FDA cleared or approved but has been authorized for emergency use by FDA under an EUA for use by authorized laboratories;
 - This test has been authorized only for the detection of nucleic acid from SARS-CoV-2, not for any other viruses or pathogens; and
 - The emergency use of this test is only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use of in vitro diagnostics for detection and/or diagnosis of COVID-19 under Section 564(b)(1) of the Federal Food, Drug and Cosmetic Act, 21 U.S.C. § 360bbb-3(b)(1), unless the declaration is terminated or authorization is revoked sooner.

The emergency use of your product as described in this letter of authorization must comply with the conditions and all other terms of this authorization.

V. Duration of Authorization

This EUA will be effective until the declaration that circumstances exist justifying the authorization of the emergency use of in vitro diagnostics for detection and/or diagnosis of COVID-19 is terminated under Section 564(b)(2) of the Act or the EUA is revoked under Section 564(g) of the Act.

Sincerely,

RADM Denise M. Hinton
Chief Scientist
Food and Drug Administration

Enclosure

REVOKED